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4/10/4



SECRETARY OF THE AIR FORCE
WASHINGTON

Dr. Edward Teller
Lawrence Livermore National Laboratory
P.O. Box 808, L-0
Livermore, CA 94550

SEP - 5 1995

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ET said
on 10/4

Dear Dr. Teller:

As you know, we are continuing to examine ways to improve our use of the Scientific Advisory Board and in so doing, I have determined that we must bring our membership policies in line with those of the other military services and the Defense Science Board. I recognize that the SAB predates them all, and I share your pride in the many accomplishments that have resulted from your work on the SAB. However, now is the time for us to return to a single membership category for the SAB, as begun by Dr. von Kármán.

Beginning in October 1995, the SAB will have only a single category of membership and we will disestablish the five Senior Scientist positions. This will be an administrative change, and I assure you that we will continue to seek and rely upon your wise counsel and expertise on a variety of matters. We will involve you in the SAB semi-annual membership sessions and will request your assistance with studies and other activities as our needs and your availability allow.

You have the gratitude of the men and women of the Air Force for your years of service with the SAB, and we will continue to call upon you. As we continue to mark our "Five Decades of Progress Toward New Horizons," we look forward to your continued support.

Sheila E. Widnall

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THE AEROSPACE CORPORATION



SAB file

Post Office Box 92957, Los Angeles, California 90009, Telephone: (213) 648-5000

May 8, 1978

To: Dr. Atkins
Dr. Biehl
Mr. Everett
Dr. Hartunian
Lt. Gen. Kent
Maj. Gen. Kuyk
Dr. May
Prof. McCarthy
Dr. McDonald
Dr. Naka
Dr. Payton
Mr. Sewell
Dr. Stear
Dr. Teller
Dr. Ware

Please find attached a draft report from the MX Panel to General Jones. General Jones and General Lew Allen, Vice Chief of Staff, are moving ahead rapidly in defining the Air Force position on the MX. This letter should be useful to them; they should get it at the earliest practical time. I have therefore sent Major Sandford a signed copy of this letter on the assumption that perhaps this letter does accurately reflect the essence of our current thinking. If you feel strongly that this letter does not accurately reflect the Panel's conclusions, please notify Major Sandford (202 697-8845) by May 17. If he does not receive by that time a serious objection from any member, he will deliver my signed copy to General Jones. Please recognize that I am trying to get this letter to General Jones in a timely way. I regret very much that I will be on the road from May 10 to May 27. However, I will check in with Thad to see whether any changes in the letter are indicated.

On May 2 I met separately with General Allen, General Stafford, General Block, and Secretary Martin. All enthusiastically support our summer workshop and have agreed to the list of participants suggested by the

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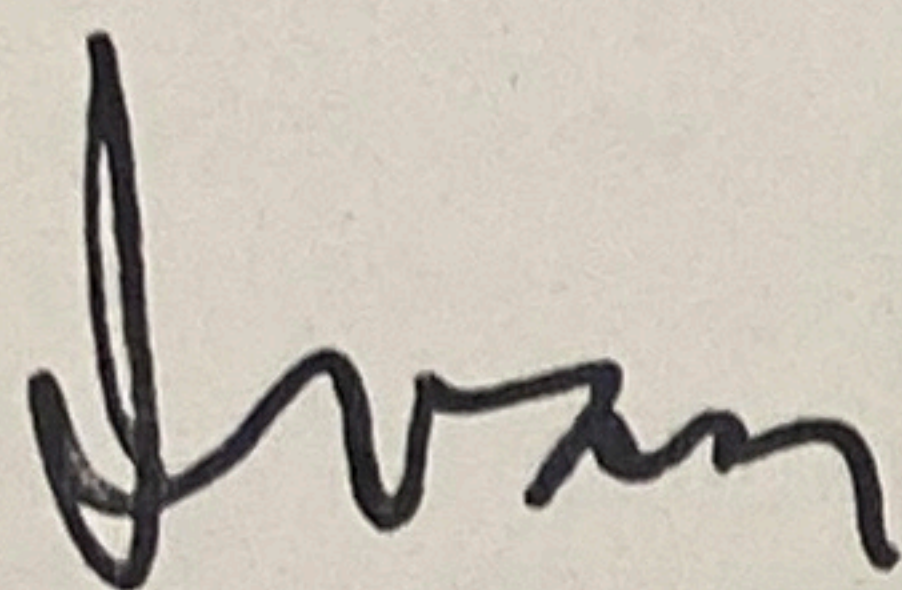
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MX Panel Members
May 8, 1978
Page 2

members of the Panel, with only two additions -- Al Hill and Gordon Soper of DNA.

Sincerely yours,



General David C. Jones, USAF

IAG:an

Enc.

cc: C. D. Perkins

Maj. T. H. Sandford

The MX Panel of the Scientific Advisory Board met in Los Angeles on April 25 and 26, 1978. The principal purpose of the meeting was to review two studies on the MX, one by General Hoyer of the MX Program Office and the other by General Towner of AFSC. The Panel had participated in the establishment of these studies. While the two studies approached the analysis of multiple aim point basing of MX in different ways, the results are mutually complementary and help to provide a better understanding.

You will recall that you originally charged the MX Panel to review the viability of basing MX on a continuous track and a multiple aim point basis. With the change in administration, you further charged the Panel to look into alternative basing modes. A few months ago, Dr. Art Biehl, Chairman of the MX Panel, reported to you that of the many conceivable options to improve the survivability of the land-based missile against the Soviet threat, the multiple aim point (MAP) option remained the most attractive -- at least from a technical viewpoint. There were, however, a multiplicity of multiple aim point schemes; but at that time there had not been a careful examination of the operational problems resulting from the use of MAP. Now that more accurate and reliable information has been obtained regarding MAP, the absence of a complete study led to the assignment of General Hoyer's study. The need for a more detailed study with the operational Command in regard to operational issues led to General Towner's study.

USAF : SAB

General David C. Jones, USAF
Chief of Staff
U.S. Air Force
Washington, D. C. 20330

Dear General Jones:

The MX Panel of the Scientific Advisory Board met in Los Angeles on April 25 and 26, 1978. The principal purpose of the meeting was to review two studies on the MX, one by General Hepfer of the MX Program Office and the other by General Toomay of AFSC. The Panel had participated in the establishment of these studies. While the two studies approached the analysis of multiple aim point basing of MX in different ways, the results are mutually complementary and help to provide a better understanding.

You will recall that you originally charged the MX Panel to review the validation program for the continuous trench and horizontal shelter options. With the change in administration, you further charged the Panel to look into alternative basing modes. A few months ago, Dr. Art Biehl, Chairman of the MX Panel, reported to you that of the many conceivable options to improve the survivability of the land-based missile against the Soviet threat, the multiple aim point (MAP) option remained the most attractive -- at least from a technical viewpoint. There were, however, a multiplicity of multiple aim point schemes; but at that time there had not been a careful examination of the operational problems resulting from the use of decoys nor was there available accurate cost information based on equally refined engineering data. The absence of comparable cost data led to the establishment of General Hepfer's study. The need for a better interaction with the operational Command in regard to operational features led to General Toomay's study.

be part

General David C. Jones
Page 2

Both studies were carried out in a thoroughly professional manner. The studies indicate that a viable MAP system of approximately 200 MX missiles with meaningful survivability (in the 1990 time period) can be supported by a national expenditure of approximately \$20 - \$25 billion over a ten year life cycle cost. Several viable basing options exist from the trench with spurs to a variety of horizontal and vertical shelters. Currently the vertical shelters (silos) appear to be the most attractive from the standpoint of cost and assurance of hardness. The study groups are to be complimented on the attention which has been paid to the use of reducing observables and providing decoys. In this regard, the work of Dr. Naka and his survivability workshop was particularly illuminating.

At this point of time, the Panel feels that additional work is required in defining more carefully the operational concepts and costs. The two principal issues which impact on the costs are the mean time between failures which affects recycle times and manpower requirements and the operational problems relative to maintaining security of information regarding the location of the missiles. We all agree that much progress has been made, but further refinement is indicated.

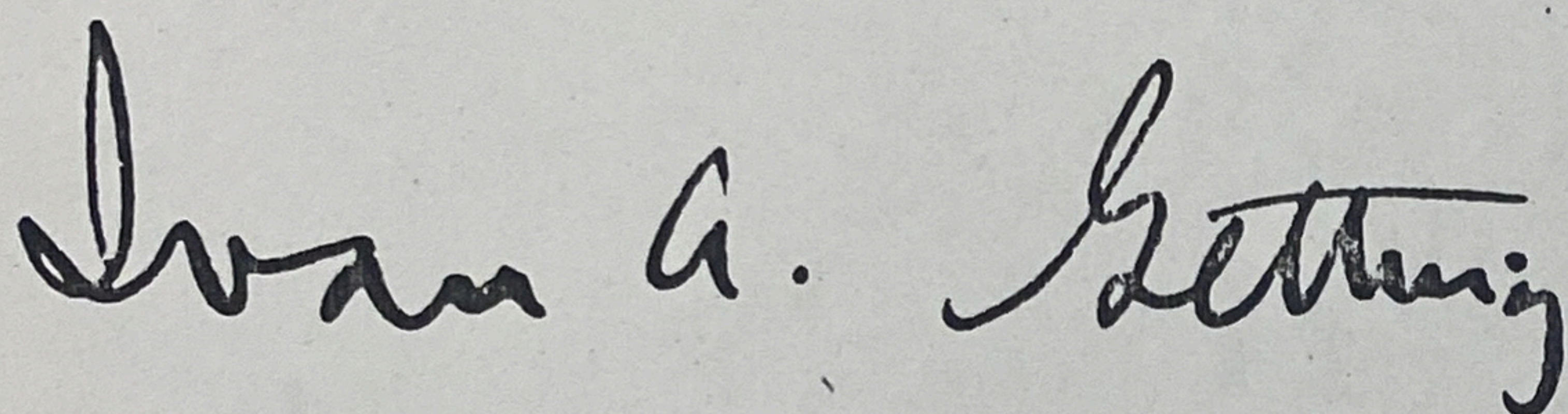
Another major area of progress is in the area of understanding nuclear hardening and the effect of multiple bursts and EMP. Additional tests during the next few months will contribute to a better understanding. However, this is an area which, in the absence of atmospheric nuclear testing, will always remain one of lingering doubt. The Panel urges a conservative approach, and we are pleased that the MX SPO have espoused this view.

Dr. Martin and General Stafford have approved an SAB summer workshop to be held during the period August 14 - 25. This will address the question, "In light of the Soviet strategic growth, what interim and long-range alternatives are available to the Air Force to strengthen the land-based Ballistic Missile survivability and deterrent capabilities?" Dr. Biehl is being asked to head this workshop. Bob Everett and I will act as Associate Directors. It is our hope that this workshop will provide a forum during which the

General David C. Jones
Page 3

members of the SAB can interact with the leadership of the Air Force so that the Air Force may converge on a single thread in the evolution of the land-based ballistic missile force. I personally look forward to participating with members of your staff, and in particular with Brig. Gen. Emil Block, who has been designated as General Officer Participant.

Sincerely yours,



Ivan A. Getting
Chairman, Strategic Panel
Scientific Advisory Board

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- troubled about 0 CEP for USSR; i.e., terminal guidance.

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